

Employer Commute Program Emissions Calculations

The preparation of this report has been financed in part by grants from the Federal Highway Administration, U.S. Department of Transportation. The contents of this report do not necessarily reflect the official views or policy of the U.S. Department of Transportation.

Employer Name: City of Sunnyvale
Employer Address: 456 West Olive Avenue
 Sunnyvale, CA 94088



Number of Employees

Year	Baseline	2013	2014	2015	2016
	826				

Note: Baseline is based on 2010 data

Worksite Mode Split (Survey Results for Sunday through Saturday)

Year	Baseline	2013	2014	2015	2016
Mode					
Drive Alone	83%				
Carpool (2-6 people)	9%				
Vanpool (7-15 people)	-				
Public Transit	5%				
Shuttle	-				
Motorcycle/Moped	<1%				
Bicycle	<1%				
Walk	<1%				
Other	-				
Compressed work week day off	<1%				
Work at home/telecommute	<1%				
Day Off, Vacation, Sick, Jury Duty	not included				
Work or Travel Off-Site	not included				
TOTAL	100%				

Change in Annual Auto Trips

	Baseline	2013	2014	2015	2016
Annual Auto Trips	397,343				
Change in Annual Auto Trips	n/a				
Percent Change	n/a				
Annual Auto Trips per employee	481				
Change in Annual Auto Trips per employee	n/a				
Percent Change per employee	n/a				

Change in Annual Vehicle Miles Traveled (VMT)

	Baseline	2013	2014	2015	2016
Annual Auto VMT	7,354,298				
Change in Annual Vehicle Miles Traveled (VMT)	n/a				
Percent Change	n/a				
Annual Auto VMT per employee	8,904				
Change in Annual Vehicle Miles Traveled (VMT) per employee	n/a				
Percent Change per employee	n/a				

Employer Commute Program Emissions Calculations**Average Vehicle Ridership (AVR)**

average vehicle ridership for vehicles driving to the worksite (drive alone, carpools, vanpools)

	Baseline	2013	2014	2015	2016
	1.14				
Percent Change	n/a				

Vehicle Employee Ratio (VER)

number of drive alone, carpool and vanpool daily vehicle trips generated to & from the worksite on a per employee basis

	Baseline	2013	2014	2015	2016
	0.88				
Percent Change	n/a				

Change in Vehicles on the Road (daily)

	Baseline	2013	2014	2015	2016
Number of Vehicles	727				
Change in the Number of Vehicles	n/a				
percent change	n/a				

Emissions Change (annual)

	Baseline	2013	2014	2015	2016	
ROG (<i>reactive organic gases</i>)	7,646					lbs
percent change	n/a					
NOx (<i>nitrous oxides</i>)	8,518					lbs
percent change	n/a					
PM10 (<i>particulate matter</i>)	3,544					lbs
percent change	n/a					
CO (<i>carbon monoxide</i>)	87,329					lbs
percent change	n/a					
CO ₂ (<i>carbon dioxide</i>)	7,888,862					lbs
percent change	n/a					

Emissions Change (per employee)

	Baseline	2013	2014	2015	2016	
ROG (<i>reactive organic gases</i>)	9.3					lbs
percent change	n/a					
NOx (<i>nitrous oxides</i>)	10.3					lbs
percent change	n/a					
PM10 (<i>particulate matter</i>)	4.3					lbs
percent change	n/a					
CO (<i>carbon monoxide</i>)	105.7					lbs
percent change	n/a					
CO ₂ (<i>carbon dioxide</i>)	9,551					lbs
percent change	n/a					

Fuel Consumption Change (annual)

	Baseline	2013	2014	2015	2016
Gallons Consumed	360,505				
Change in gallons consumed	n/a				
percent change	n/a				
Gallons Consumed per employee	436				
Change in gallons consumed per employee	n/a				
percent change per employee	n/a				